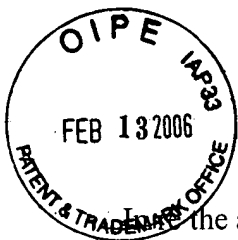


IFW



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Attorney Docket No.: 42801.3.76.1

BOREN, et al.

Application No.: 10/767,460

Examiner: *Unknown*

Filed: January 28, 2004

Group Art Unit: 1754

For: OXIDES OF MANGANESE PROCESSED IN CONTINUOUS FLOW REACTORS

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. Copies of U.S. patents and U.S. publications are not enclosed in accordance with recently revised 37 CFR §1.98. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

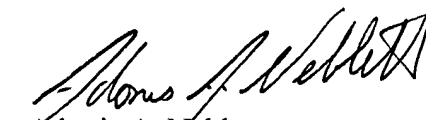
This information is being filed before the mailing date of a first Office Action on the merits. No certification or fee is required.

DE 33 12 890 is a German-language reference. An English-language abstract for this reference is provided. DE 3731889 is a German-language reference. An English-language translation for this reference is provided. DE 40 12 982 is a German-language reference. An English-language abstract for this reference is provided. DE 197 15 244 is a German-language reference. An English-language translation for this reference is provided. EP 0 476 300 is a German-language reference. An English-language abstract for this reference is provided. JP

08266859 is a Japanese-language reference. An English-language abstract for this reference is provided.

By submitting these references, Applicant does not admit that the references are prior art to or material to this application, and reserves the right to establish that any reference is not prior art. Applicant does not represent that the references have been reviewed in detail; there may be details in the references of which Applicant is unaware.

Respectfully submitted,

  
Adonis A. Neblett  
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*Please grant any extension of time necessary for entry; charge any fee due to Deposit Account No. 06-1910.*

CERTIFICATE OF MAILING

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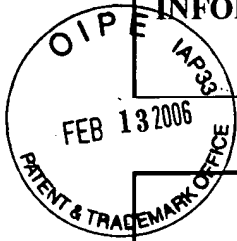
FORM PTO-1449 MODIFIED

Docket No.:  
42801.3.76.1Application No.:  
10/767,460**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**

APPLICANT: BOREN et al

FILING DATE: January 28, 2004

GROUP ART UNIT: 1754

**U.S. PATENT DOCUMENTS**

Examiner's initials	Document No.	Date	Name	Class	Subclass
	6,599,429	07/29/2003	Azizian	210	681
	6,579,509	06/17/2003	Otsuka	423	245
	6,558,556	05/06/2003	Khoe	210	758
	6,517,802	02/11/2003	Xiao	423	263
	6,398,968	06/04/2002	Higby	210	721
	6,368,510	04/09/2002	Friot	210	670
	6,338,830	01/15/2002	Moskovitz	423	210
	6,248,217	06/19/2001	Biswas	204	157
	6,214,304	04/10/2001	Rosenthal	423	210
	6,214,303	04/10/2001	Hoke	423	210
	6,162,530	12/19/2000	Xiao	428	292
	6,132,692	10/17/2000	Alix	423	210
	6,117,403	09/12/2000	Alix	423	210
	6,117,333	09/12/2000	Frankiewicz	210	705
	6,102,039	08/15/2000	Springett	128	206.12
	6,085,440	07/11/2000	Getler	34	314
	6,066,590	05/23/2000	Horii	502	324
	6,039,783	03/21/2000	Lueck	71	59
	6,010,666	01/04/2000	Kurokawa	422	122
	5,955,393	09/21/1999	Moskovitz	502	5
	5,955,045	09/21/1999	Baur	423	239.1
	5,888,926	3/30/1999	Biswas	502	406
	5,871,703	02/16/1999	Alix	423	210
	5,866,014	02/02/1999	Santina	210	716
	5,853,684	12/29/1998	Fang	423	244
	5,798,088	08/25/1998	Dorchak	423	567
	5,780,000	07/14/1998	Strickland	423	220
	5,712,219	01/27/1998	Klabunde	502	328
	5,700,439	12/23/1997	Goyette	423	230
	5,672,323	09/30/1997	Bhat	422	172
	5,658,544	08/19/1997	Goodes	423	230
	5,635,073	06/13/1997	Aktor	210	714
	5,607,496	03/04/1997	Brooks	75	670
	5,556,545	09/17/1996	Volchek	210	651

**Examiner Signature****Date Considered**

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

FORM PTO-1449 MODIFIED	Docket No.: 42801.3.76.1	Application No.: 10/767,460
	APPLICANT: BOREN et al	
	FILING DATE: January 28, 2004	
GROUP ART UNIT: 1754		

U.S. PATENT DOCUMENTS					
Examiner's initials	Document No.	Date	Name	Class	Subclass
	5,534,234	07/09/1996	Reddin	423	50
	5,505,766	04/09/1996	Chang	95	134
	5,456,892	10/10/1995	Yang	423	239
	5,439,658	08/08/1995	Johnson	423	243
	5,391,365	02/21/1995	Wang	423	605
	5,391,218	02/21/1995	Jorgenson	95	20
	5,384,301	01/24/1995	Flytzani-Stephanopoulos	502	304
	5,366,710	11/22/1994	Chou	423	235
	5,358,643	10/25/1994	McClintock	210	709
	5,352,269	10/04/1994	McCandlish	75	351
	5,348,726	09/20/1994	Wang	423	605
	5,277,890	01/11/1994	Wang	423	605
	5,246,554	09/21/1993	Cha	204	157
	5,200,160	04/06/1993	Benson	423	235
	5,199,263	04/06/1993	Green	60	670
	5,192,515	03/09/1993	Gardner-Chavis	423	213
	5,176,888	01/05/1992	Stiles	423	239
	5,112,796	05/12/1992	Iannicelli	502	402
	5,059,406	10/22/1991	Sheth	423	244
	5,023,063	01/11/1991	Stiles	423	239
	5,009,872	04/23/1991	Chuang	423	245
	5,000,930	03/19/1991	Boguslawski	423	239
	4,954,324	09/04/1990	Hooper	423	239
	4,944,878	07/31/1990	Lockridge	210	683
	4,940,569	07/10/1990	Neal	423	239
	4,925,633	05/15/1990	Doyle	422	171
	4,923,688	05/08/1990	Iannicelli	423	224
	4,921,689	05/01/0990	Walker	423	605
	4,915,922	04/10/1990	Filss	423	239
	4,908,194	03/13/1990	Hooper	423	235
	4,883,647	11/28/1989	Kainer	423	239
	4,872,989	10/10/1989	Pirotta	210	638
	4,871,522	10/03/1989	Doyle	423	239
	4,843,980	07/04/1989	Markham	110	342

Examiner Signature	Date Considered
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INFORMATION DISCLOSURE CITATION IN AN APPLICATION	GROUP ART UNIT: 1754	

U.S. PATENT DOCUMENTS					
Examiner's initials	Document No.	Date	Name	Class	Subclass
	4,836,993	06/06/1989	Bertolacini	423	244
	4,798,711	01/17/1989	Neal	423	239
	4,755,499	07/05/1988	Neal	502	415
	4,719,791	01/19/1988	Greiner	73	38
	4,713,225	12/15/1987	Iannicelli	423	230
	4,581,219	04/08/1986	Imada	423	605
	4,581,210	04/08/1986	Teller	423	242
	4,552,735	11/12/1985	Iannicelli	423	224
	4,552,734	11/12/1985	Iannicelli	423	230
	4,551,254	11/05/1985	Imada	210	688
	4,550,098	10/29/1985	Gens	502	324
	4,542,116	09/17/1985	Bertolacini	502	65
	4,500,281	02/19/1985	Beardmore	431	3
	4,497,902	02/05/1985	Bertolacini	502	65
	4,479,877	10/30/1984	Guter	210	670
	4,476,104	10/09/1984	Mellors	423	605
	4,450,148	05/22/1984	Welsh	423	605
	4,448,760	05/15/1984	Welsh	423	605
	4,423,019	12/27/1983	Bertolacini	423	244
	4,411,878	10/25/1983	Welsh	423	605
	4,402,931	09/06/1983	Tanabe	423	605
	4,400,362	08/23/1983	Lerner	423	235
	4,381,991	05/03/1983	Bertolacini	208	113
	4,376,103	03/08/1983	Bertolacini	423	244
	4,369,167	01/18/1983	Weir	423	210
	4,369,130	01/18/1983	Bertolacini	252	455
	4,369,108	01/18/1983	Bertolacini	208	120
	4,310,494	01/12/1982	Welsh	423	49
	4,309,392	01/05/1982	Shaw	423	239
	4,309,386	01/05/1982	Pirsh	422	177
	4,277,360	07/07/1980	Mellors	252	182
	4,277,255	07/07/1981	Apelgren	55	20
	4,276,268	06/30/1980	Welsh	423	49
	4,250,149	02/10/1981	Welsh	423	50
	4,233,188	11/11/1980	Ghandi	252	470

Examiner Signature	Date Considered
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INFORMATION DISCLOSURE CITATION IN AN APPLICATION		
GROUP ART UNIT: 1754		

U.S. PATENT DOCUMENTS					
Examiner's initials	Document No.	Date	Name	Class	Subclass
	4,164,545	08/14/1979	Scott	423	239
	4,162,207	07/24/1979	Boyer	204	157
	4,153,429	05/08/1979	Matthews	55	68
	4,144,144	03/13/1979	Radimer	205	347
	4,123,507	10/31/1978	Hass	423	574
	4,123,499	10/31/1978	Welsh	423	035
	4,112,053	09/05/1978	Sanada	423	239
	4,108,969	08/22/1978	Merkl	423	560
	4,102,982	07/25/1978	Weir	423	242
	4,091,075	05/23/1978	Pessel	423	242
	4,087,372	05/02/1978	Saitoh	252	184
	4,081,509	05/28/1978	Hishinuma	423	235
	4,070,441	01/24/1978	Pessel	423	242
	4,033,113	07/05/1977	Cramer	60	39
	4,029,752	06/14/1977	Cahn	423	563
	4,017,586	04/12/1977	Reeves	423	242
	4,014,982	03/29/1977	Paull	423	528
	4,012,487	03/15/1977	Merkl	423	242
	4,011,298	03/08/1977	Fukui	423	235
	4,008,169	02/15/1977	McGauley	252	191
	4,006,217	02/01/1977	Faber	423	605
	3,981,971	09/21/1976	Saito	423	239
	3,957,949	05/18/1976	Senjo	423	235
	3,956,189	05/11/1976	Warshaw	252	466
	3,951,765	04/20/1976	Everett	204	96
	3,933,128	01/20/1976	Cramer	122	4
	3,898,320	08/15/1975	Atsukawa	423	605
	3,798,310	03/19/1974	Atsukawa	423	244
	3,780,158	12/18/1973	Welsh	423	49
	3,770,868	11/06/1973	Lean	423	5
	3,723,598	03/27/1973	Spedden	423	244
	3,427,128	02/11/1969	Schmier	23	145
	3,330,096	07/11/1967	Zimmerley	55	73
	3,251,649	05/17/1966	Atsukawa	23	167
	3,226,192	12/28/1965	Atsukawa	23	167

Examiner Signature	Date Considered
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FORM PTO-1449 MODIFIED  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>	Docket No.: 42801.3.76.1	Application No.: 10/767,460
	APPLICANT: BOREN et al	
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GROUP ART UNIT: 1754		

U.S. PATENT DOCUMENTS					
Examiner's initials	Document No.	Date	Name	Class	Subclass
	3,150,923	09/29/1964	Bienstock	423	244.06
	3,011,867	05/12/1961	Welsh	23	61
	2,984,545	05/16/1961	Tarbutton	23	178
	2,956,860	10/18/1960	Welsh	23	145
	2,608,466	08/26/1952	Fox	23	145
	2,486,530	11/01/1949	Jenness	252	186
	2,123,250	07/12/1938	Muller, et al.	23	145
	1,851,312	03/29/1932	Huff	423	222
	1,293,461	02/04/1919	Kaplan	423	605
	1,275,666	08/13/1918	Ellis	423	605
	1,178,927	04/11/1916	Kaplan	423	605
	2003-0209495	11/13/2003	Schlegel	210	660
	2003-0196966	10/23/2003	Hughes	210	758
	2003-0196960	10/23/2003	Hughes	210	679
	2003-0077398	04/24/2003	Strutt	427	452
	2003-0077249	04/24/2003	Bebbington	424	93
	2002-0074292	06/20/2002	Schlegel	210	681
	2002-0070172	06/13/2002	Schlegel	210	660
	2002-0006363	01/17/2002	Feeley	422	171

FOREIGN PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	DE 33 12 890	10/11/84	DE			
	DE 37 31 889	04/27/89	DE			
	DE 40 12 982	10/31/91	DE			
	DE 197 15 244	10/15/98	DE			
	EP 0 428 389	05/22/91	EP			
	EP 0 476 300	01/25/95	EP			
	JP 08266859	10/15/96	JP			
	WO 86/02918	05/22/86	WO			
	WO 01/87464	11/22/2001	WO			
	WO 98/17365	04/30/1998	WO			

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	APPLICANT: BOREN et al FILING DATE: January 28, 2004 GROUP ART UNIT: 1754	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)	
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	J. Brenet, P.C. Piquet, and J.Y. Welsh, "An Interpretation of the Specific Reactivity of MnO <sub>2</sub> Having a Gamma or Gamma-Rho Crystal Structure," The Electrochemical Society, Inc., Manganese Dioxide Symposium, Vol. 2 Tokyo, 1980, pp. 214-43
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<b>Examiner Signature</b>	<b>Date Considered</b>
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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)	
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<b>Examiner Signature</b>	<b>Date Considered</b>
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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)	
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<b>Examiner Signature</b>	<b>Date Considered</b>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

<b>FORM PTO-1449 MODIFIED</b>  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>	Docket No.: 42801.3.76.1	Application No.: 10/767,460
	APPLICANT: BOREN et al FILING DATE: January 28, 2004 GROUP ART UNIT: 1754	

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